

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	616	(substrate or wafer) and target and (chuck same space\$2)	US-PGPUB; USPAT	OR	ON	2006/01/24 09:18
L2	287	(substrate or wafer) and target and (chuck with space\$2)	US-PGPUB; USPAT	OR	ON	2006/01/24 08:38
L3	119	2 and (chuck same temperature)	US-PGPUB; USPAT	OR	ON	2006/01/24 08:39
L4	84	2 and (chuck with temperature)	US-PGPUB; USPAT	OR	ON	2006/01/24 08:40
L5	84	4 and @ad<"200305113"	US-PGPUB; USPAT	OR	ON	2006/01/24 08:40
L6	12	(substrate or wafer) and target and (chuck same space\$2)	USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/24 09:18

US-PAT-NO: 6377060

DOCUMENT-IDENTIFIER: US 6377060 B1

****See image for Certificate of Correction****

TITLE: Method and apparatus for wafer detection

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Detailed Description Text - DETX (17):

Atop the chuck surface 626 are the plurality of pads 610 of the spacing mask 602. These pads 610 maintain the wafer in a spaced-apart relation to the surface 626 of the ceramic chuck 600. The invention includes an inner surface electrode 604 and an outer surface electrode 624. These electrodes function as both wafer detection system electrodes and as pads to support a wafer above the surface of the chuck, i.e., the electrodes 624 and 604 have a height that is equivalent to the height of the mask pads 610.

Detailed Description Text - DETX (18):

More specifically, the inner surface electrode 604 is substantially annular having a gap 632 to interrupt its annular shape, i.e., the inner surface electrode is C-shaped. Ideally, the inner surface electrode is annular; however, deposition constraints require a C-shaped electrode. The inner surface electrode 604 is connected, via surface conductor 622, to a conductive gas feed line 606. The gas feed line 606 is generally used to supply a heat transfer medium (e.g., argon or helium gas) to the space between the wafer 202 and the chuck surface 626. The inner electrode has a radius of approximately 0.75 inches (1.9 cm) and a line width of approximately 0.15 inches (0.38 cm).